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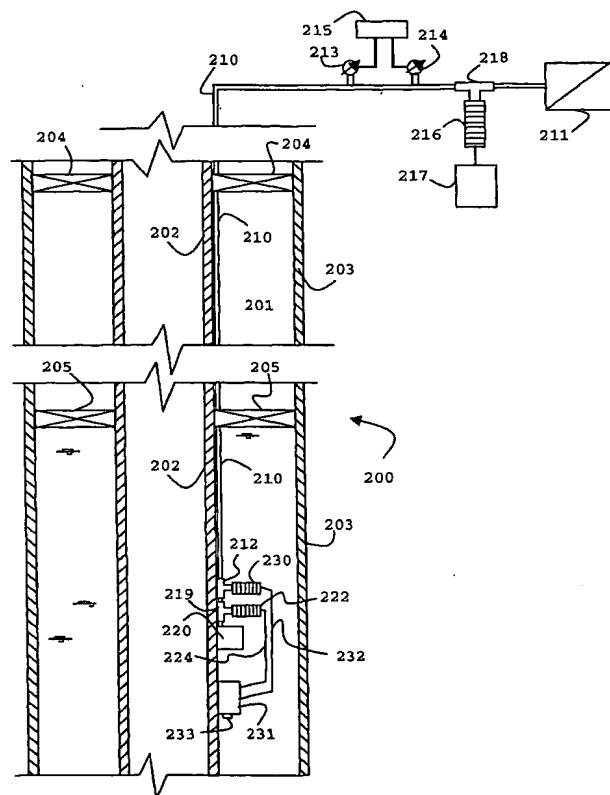
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(54) Title: BOREHOLE TELEMETRY SYSTEM



(57) Abstract: An acoustic telemetry apparatus and methods for communicating digital data from a down-hole location through a borehole to the surface or between locations within the borehole are described including a receiver and a transmitter linked by an acoustic channel (210) wherein acoustic channel has a cross-sectional area of 58 cm<sup>2</sup> or less and the transmitter comprises an electro-active transducer generating a modulated continuous waveform.



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